

## Herceptin® (trastuzumab) (Intravenous)

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### I. Length of Authorization

Coverage is provided for six months and may be renewed.

- Use in the neo-adjuvant and adjuvant setting is limited to a total of 52 weeks of treatment

### II. Dosing Limits

#### A. Quantity Limit (max daily dose) [Pharmacy Benefit]:

- Herceptin 150 mg single-dose vial: 7 vials every 21 days
- Herceptin 420 mg multiple-dose vial: 3 vials every 21 days

#### B. Max Units (per dose and over time) [Medical Benefit]:

##### Breast Cancer and Gastric/Esophageal/Gastro-esophageal junction Cancers

	Load (billable units)	Maintenance (billable units)
7-day dosing schedule	45	30
21-day dosing schedule	90	75

##### CNS Cancer

- 15 billable units every 7 days

##### Uterine Cancer

- 90 billable units, followed by 75 billable units every 21 days

### III. Initial Approval Criteria

Coverage is provided in the following conditions:

- Baseline left ventricular ejection fraction (LVEF) within normal limits; **AND**
- Patient is 18 years or older; **AND**
- Patient's cancer is human epidermal growth factor receptor 2 (HER2)-positive\*; **AND**

## Breast cancer †

- Used as adjuvant therapy in combination with a taxane-based regimen (e.g., docetaxel, paclitaxel, etc.) OR as a single agent following anthracycline-based therapy †; **OR**
- Used as neoadjuvant therapy for breast preservation in combination with a taxane-based regimen (e.g., docetaxel, paclitaxel, etc.); **OR**
- Used for recurrent or metastatic disease; **AND**
  - Used as a single agent in patients who have received one or more prior treatments for metastatic disease †; **OR**
  - Used in first-line therapy in combination with paclitaxel †; **OR**
  - Used in combination with endocrine therapy in patients with hormone-receptor positive or asymptomatic visceral disease; **AND**
    - Patient is post-menopausal; **OR**
    - Patient is pre-menopausal treated with ovarian ablation/suppression if prior endocrine therapy within 1 year OR patient had no prior endocrine therapy within 1 year; **OR**
    - Patient is a male receiving concomitant suppression of testicular steroidogenesis; **OR**
  - Used in combination with cytotoxic chemotherapy OR lapatinib OR pertuzumab and a taxane as first-line therapy OR pertuzumab as second-line therapy in patients who were previously treated with trastuzumab without pertuzumab; **AND**
    - Disease is hormone receptor-negative; **OR**
    - Disease is hormone receptor-positive and refractory to endocrine therapy; **OR**
    - Patient has symptomatic visceral disease or visceral crisis

## Central Nervous System Cancer ‡

- Patient has leptomeningeal metastases from breast cancer; **AND**
- Trastuzumab will be administered intrathecally

## Gastric, Esophageal and Esophagogastric Junction Cancers †

- Used in combination with cisplatin and 5-FU or capecitabine for first-line therapy; **AND**
- Patient has metastatic adenocarcinoma

## Uterine Cancer ‡

- Used in combination with carboplatin and paclitaxel; **AND**
- Used for advanced or recurrent uterine serous carcinoma

† FDA Approved Indication(s); ‡ Compendia recommended Indication(s)

\*HER2-positive overexpression criteria:

- Immunohistochemistry (IHC) assay 3+; **OR**
- In situ hybridization (ISH) assay average HER2 copy number  $\geq 6.0$  signals/cell;  
**OR**
- Dual-probe in situ hybridization (ISH) assay HER2/CEP17 ratio  $\geq 2.0$

#### IV. Renewal Criteria

Coverage can be renewed based upon the following criteria:

- Patient continues to meet the criteria identified in section III; **AND**
- Tumor response with stabilization of disease or decrease in size of tumor or tumor spread;  
**AND**
- Absence of unacceptable toxicity from the drug. Examples of unacceptable toxicity include the following: cardiotoxicity (e.g., left ventricular dysfunction, cardiomyopathy, etc.), pulmonary toxicity (i.e., pneumonitis), neutropenia, infusion-related reactions, etc.; **AND**
- Left ventricular ejection fraction (LVEF) has not had an absolute decrease of more than 15% from baseline and is within normal limits; **AND**
- Use for neoadjuvant and adjuvant breast cancer treatment is limited to a total of 52 weeks of therapy

#### V. Dosage/Administration

Indication	Dose
Breast Cancer	Loading dose: 8 mg/kg x 1 for every 21 day dosing schedule Maintenance dose: 6 mg/kg every 21 days
Gastric, Esophageal and Esophagogastric Junction Cancers	<b>OR</b> Loading dose: 4 mg/kg x 1 for weekly dosing schedule Maintenance dose: 2 mg/kg every 7 days
Leptomeningeal Metastases from Breast Cancer	Escalating doses up to 100 mg intrathecally weekly.* <i>*Dosing is highly variable and should be individualized.</i>
Uterine Cancer	Loading dose: 8 mg/kg x 1 for every 21 days dosing schedule Maintenance dose: 6 mg/kg every 21 days

#### VI. Billing Code/Availability Information

Jcode:

- J9355 - Injection, trastuzumab, 10 mg; 1 billable unit = 10 mg

NDC:

- Herceptin 150 mg single-dose vial; powder for injection: 50242-0132-xx
- Herceptin 420 mg multiple-dose vial; powder for injection: 50242-0333-xx

## VII. References

1. Herceptin [package insert]. South San Francisco, CA; Genentech, Inc; November 2018. Accessed January 2019.
2. Referenced with permission from the NCCN Drugs & Biologics Compendium (NCCN Compendium®) trastuzumab. National Comprehensive Cancer Network, 2019. The NCCN Compendium® is a derivative work of the NCCN Guidelines®. NATIONAL COMPREHENSIVE CANCER NETWORK®, NCCN®, and NCCN GUIDELINES® are trademarks owned by the National Comprehensive Cancer Network, Inc.” To view the most recent and complete version of the Compendium, go online to NCCN.org. Accessed January 2019.
3. Zagouri F, Sargentanis TN, Bartsch R, et al. Intrathecal administration of trastuzumab for the treatment of meningeal carcinomatosis in HER2-positive metastatic breast cancer: a systematic review and pooled analysis. *Breast Cancer Res Treat* 2013; 139:13
4. Fader AN, Roque DM, Siegel E, et al. Randomized Phase II Trial of Carboplatin-Paclitaxel Versus Carboplatin-Paclitaxel-Trastuzumab in Uterine Serous Carcinomas That Overexpress Human Epidermal Growth Factor Receptor 2/neu. *J Clin Oncol.* 2018 Jul 10;36(20):2044-2051. doi: 10.1200/JCO.2017.76.5966. Epub 2018 Mar 27.
5. First Coast Service Options, Inc. Local Coverage Determination (LCD): Trastuzumab (Herceptin®) (L34026). Centers for Medicare & Medicaid Services, Inc. Updated on 7/7/2017 with effective date 7/14/2017. Accessed January 2019.

## Appendix 1 – Covered Diagnosis Codes

ICD-10	ICD-10 Description
C15.3	Malignant neoplasm of upper third of esophagus
C15.4	Malignant neoplasm of middle third of esophagus
C15.5	Malignant neoplasm of the lower third of esophagus
C15.8	Malignant neoplasm of overlapping sites of esophagus
C15.9	Malignant neoplasm of esophagus, unspecified
C16.0	Malignant neoplasm of cardia
C16.1	Malignant neoplasm of fundus of stomach
C16.2	Malignant neoplasm of body of stomach
C16.3	Malignant neoplasm of pyloric antrum
C16.4	Malignant neoplasm of pylorus
C16.5	Malignant neoplasm of lesser curvature of stomach, unspecified
C16.6	Malignant neoplasm of greater curvature of stomach, unspecified
C16.8	Malignant neoplasm of overlapping sites of stomach
C16.9	Malignant neoplasm of stomach, unspecified
C50.011	Malignant neoplasm of nipple and areola, right female breast

ICD-10	ICD-10 Description
C50.012	Malignant neoplasm of nipple and areola, left female breast
C50.019	Malignant neoplasm of nipple and areola, unspecified female breast
C50.021	Malignant neoplasm of nipple and areola, right female breast
C50.022	Malignant neoplasm of nipple and areola, left female breast
C50.029	Malignant neoplasm of nipple and areola, unspecified female breast
C50.111	Malignant neoplasm of central portion of right female breast
C50.112	Malignant neoplasm of central portion of left female breast
C50.119	Malignant neoplasm of central portion of unspecified female breast
C50.121	Malignant neoplasm of central portion of right male breast
C50.122	Malignant neoplasm of central portion of left male breast
C50.129	Malignant neoplasm of central portion of unspecified male breast
C50.211	Malignant neoplasm of upper-inner quadrant of right female breast
C50.212	Malignant neoplasm of upper-inner quadrant of left female breast
C50.219	Malignant neoplasm of upper-inner quadrant of unspecified female breast
C50.221	Malignant neoplasm of upper-inner quadrant of right male breast
C50.222	Malignant neoplasm of upper-inner quadrant of left male breast
C50.229	Malignant neoplasm of upper-inner quadrant of unspecified male breast
C50.311	Malignant neoplasm of lower-inner quadrant of right female breast
C50.312	Malignant neoplasm of lower-inner quadrant of left female breast
C50.319	Malignant neoplasm of lower-inner quadrant of unspecified female breast
C50.321	Malignant neoplasm of lower-inner quadrant of right male breast
C50.322	Malignant neoplasm of lower-inner quadrant of left male breast
C50.329	Malignant neoplasm of lower-inner quadrant of unspecified male breast
C50.411	Malignant neoplasm of upper-outer quadrant of right female breast
C50.412	Malignant neoplasm of upper-outer quadrant of left female breast
C50.419	Malignant neoplasm of upper-outer quadrant of unspecified female breast
C50.421	Malignant neoplasm of upper-outer quadrant of right male breast
C50.422	Malignant neoplasm of upper-outer quadrant of left male breast
C50.429	Malignant neoplasm of upper-outer quadrant of unspecified male breast
C50.511	Malignant neoplasm of lower-outer quadrant of right female breast
C50.512	Malignant neoplasm of lower-outer quadrant of left female breast
C50.519	Malignant neoplasm of lower-outer quadrant of unspecified female breast
C50.521	Malignant neoplasm of lower-outer quadrant of right male breast
C50.522	Malignant neoplasm of lower-outer quadrant of left male breast

ICD-10	ICD-10 Description
C50.529	Malignant neoplasm of lower-outer quadrant of unspecified male breast
C50.611	Malignant neoplasm of axillary tail of right female breast
C50.612	Malignant neoplasm of axillary tail of left female breast
C50.619	Malignant neoplasm of axillary tail of unspecified female breast
C50.621	Malignant neoplasm of axillary tail of right male breast
C50.622	Malignant neoplasm of axillary tail of left male breast
C50.629	Malignant neoplasm of axillary tail of unspecified male breast
C50.811	Malignant neoplasm of overlapping sites of right female breast
C50.812	Malignant neoplasm of overlapping sites of left female breast
C50.819	Malignant neoplasm of overlapping sites of unspecified female breast
C50.821	Malignant neoplasm of overlapping sites of right male breast
C50.822	Malignant neoplasm of overlapping sites of left male breast
C50.829	Malignant neoplasm of overlapping sites of unspecified male breast
C50.911	Malignant neoplasm of unspecified site of right female breast
C50.912	Malignant neoplasm of unspecified site of left female breast
C50.919	Malignant neoplasm of unspecified site of unspecified female breast
C50.921	Malignant neoplasm of unspecified site of right male breast
C50.922	Malignant neoplasm of unspecified site of left male breast
C50.929	Malignant neoplasm of unspecified site of unspecified male breast
C54.0	Malignant neoplasm of isthmus uteri
C54.1	Malignant neoplasm of endometrium
C54.2	Malignant neoplasm of myometrium
C54.3	Malignant neoplasm of fundus uteri
C54.8	Malignant neoplasm of overlapping sites of corpus uteri
C54.9	Malignant neoplasm of corpus uteri, unspecified
C55	Malignant neoplasm of uterus, part unspecified
C79.32	Secondary malignant neoplasm of cerebral meninges
D37.1	Neoplasm of uncertain behavior of stomach
D37.8	Neoplasm of uncertain behavior of other specified digestive organs
D37.9	Neoplasm of uncertain behavior of digestive organ, unspecified
Z85.00	Personal history of malignant neoplasm of unspecified digestive organ
Z85.028	Personal history of other malignant neoplasm of stomach
Z85.3	Personal history of malignant neoplasm of breast

## Appendix 2 – Centers for Medicare and Medicaid Services (CMS)

Medicare coverage for outpatient (Part B) drugs is outlined in the Medicare Benefit Policy Manual (Pub. 100-2), Chapter 15, §50 Drugs and Biologicals. In addition, National Coverage Determination (NCD) and Local Coverage Determinations (LCDs) may exist and compliance with these policies is required where applicable. They can be found at: <http://www.cms.gov/medicare-coverage-database/search/advanced-search.aspx>. Additional indications may be covered at the discretion of the health plan.

Medicare Part B Covered Diagnosis Codes (applicable to existing NCD/LCD):

<b>Jurisdiction(s):</b> N	<b>NCD/LCD Document (s):</b> L34026
<a href="https://www.cms.gov/medicare-coverage-database/search/lcd-date-search.aspx?DocID=L34026&amp;bc=gAAAAAAAAAAAA">https://www.cms.gov/medicare-coverage-database/search/lcd-date-search.aspx?DocID=L34026&amp;bc=gAAAAAAAAAAAA</a>	

<b>Jurisdiction(s):</b> J	<b>NCD/LCD Document (s):</b> A53777
<a href="https://www.cms.gov/medicare-coverage-database/search/article-date-search.aspx?DocID=A53777&amp;bc=gAAAAAAAAAAAA">https://www.cms.gov/medicare-coverage-database/search/article-date-search.aspx?DocID=A53777&amp;bc=gAAAAAAAAAAAA</a>	

Medicare Part B Administrative Contractor (MAC) Jurisdictions		
Jurisdiction	Applicable State/US Territory	Contractor
E (1)	CA, HI, NV, AS, GU, CNMI	Noridian Healthcare Solutions, LLC
F (2 & 3)	AK, WA, OR, ID, ND, SD, MT, WY, UT, AZ	Noridian Healthcare Solutions, LLC
5	KS, NE, IA, MO	Wisconsin Physicians Service Insurance Corp (WPS)
6	MN, WI, IL	National Government Services, Inc. (NGS)
H (4 & 7)	LA, AR, MS, TX, OK, CO, NM	Novitas Solutions, Inc.
8	MI, IN	Wisconsin Physicians Service Insurance Corp (WPS)
N (9)	FL, PR, VI	First Coast Service Options, Inc.
J (10)	TN, GA, AL	Palmetto GBA, LLC
M (11)	NC, SC, WV, VA (excluding below)	Palmetto GBA, LLC
L (12)	DE, MD, PA, NJ, DC (includes Arlington & Fairfax counties and the city of Alexandria in VA)	Novitas Solutions, Inc.
K (13 & 14)	NY, CT, MA, RI, VT, ME, NH	National Government Services, Inc. (NGS)
15	KY, OH	CGS Administrators, LLC